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Organic electroluminescent display device - has upper electrodes made of conductive film deposited over each organic layer and formed into thickness not exceeding that of rib

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Patent Family

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GB 2297647	A	19960807	GB 961818	A	19960130	199635	B
DE 19603451	A1	19960801	DE 1003451	A	19960131	199636	
JP 8202287	A	19960809	JP 9532941	A	19950131	199642	
US 5804917	A	19980908	US 96593972	A	19960130	199843	
GB 2297647	B	19990106	GB 961818	A	19960130	199904	
JP 3208638	B2	20010917	JP 9532941	A	19950131	200156	

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Patent Details

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Abstract:

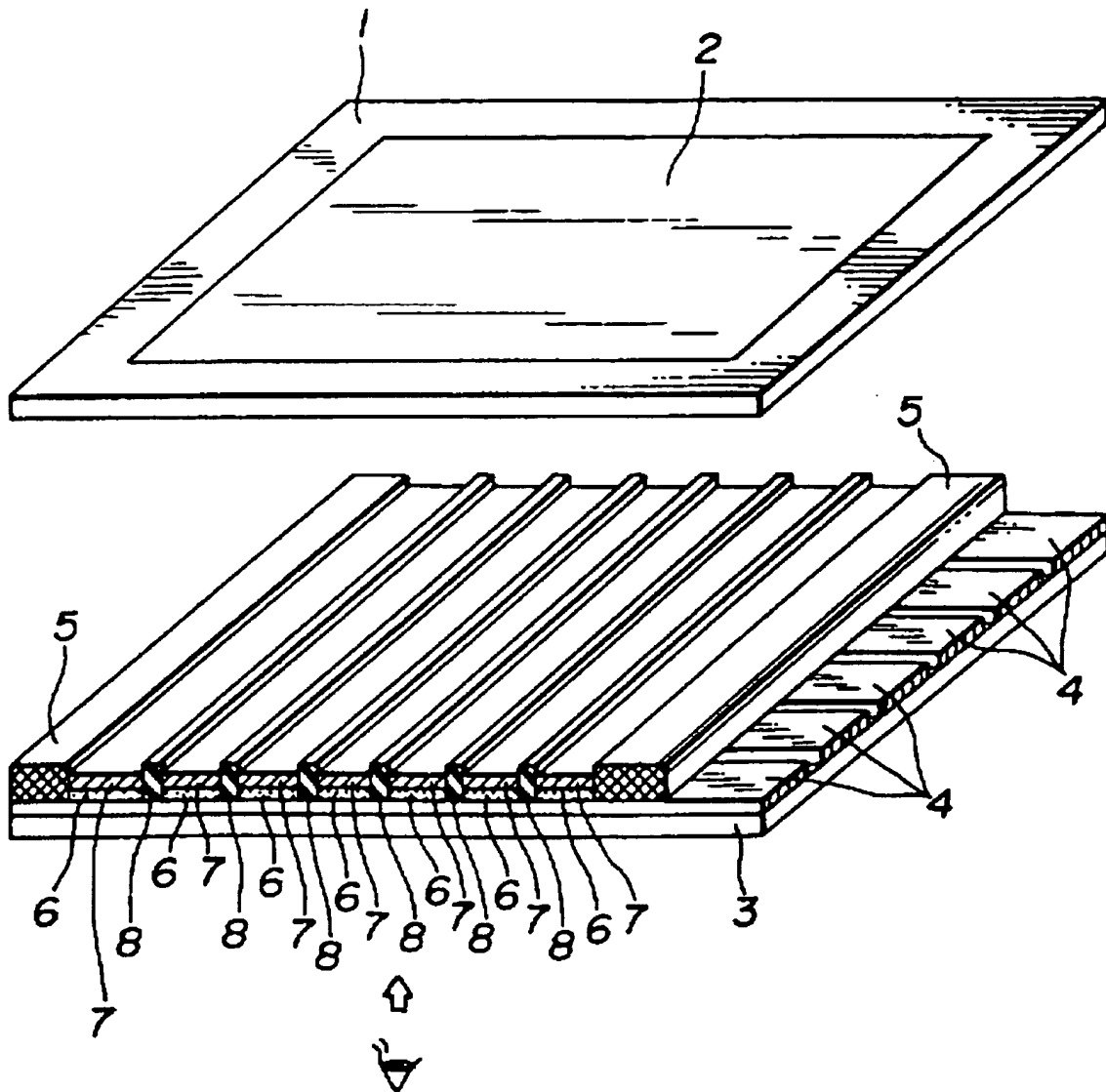
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The display device includes a light permeable substrate (3), several transparent electrodes (4), several ribs (8), and several upper electrodes (7). The ribs are made of an insulating material and organic layers, formed of an electroluminescent medium, are arranged between each adjacent two ribs. A sealant is arranged in a frame-like form on the outer periphery of the substrate and formed into a thickness identical to that of the ribs. An upper substrate is fixed to the sealant.

The transparent electrodes are provided on the substrate in a stripe like form and the ribs are arranged on these electrodes so as to extend in a direction perpendicular to the electrodes. The upper electrodes are made of conductive film deposited over each of the organic layers and are formed into a thickness not exceeding the thickness of the ribs.

ADVANTAGE - Permits upper electrodes to be formed while preventing any gap from being formed between ribs and upper electrodes to enable EL element to be prepared in vacuum while keeping organic layers from being exposed to e.g. oxygen, moisture, etc in interface. Improved durability. Permits ribs to function as spacer. Cap layer provided in form of film on upper electrode may be made of metal.

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